UNITED STATES PATENT AND TRADEMARK OFFICE

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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE *3* MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on *30 July 2008*.

2a)☒ This action is **FINAL**.   2b)☐ This action is non-final.

3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4)☒ Claim(s) *1,3,5-9,11,13,14,16,18-22,24 and 26* is/are pending in the application.

    4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5)☐ Claim(s) _____ is/are allowed.

6)☒ Claim(s) *1,3,5-9,11,13,14,16,18-22,24 and 26* is/are rejected.

7)☐ Claim(s) _____ is/are objected to.

8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☐ The specification is objected to by the Examiner.

10)☐ The drawing(s) filed on _____ is/are: a)☐ accepted or b)☐ objected to by the Examiner.

    Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

    Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

    a)☐ All   b)☐ Some * c)☐ None of:

      1.☐ Certified copies of the priority documents have been received.

      2.☐ Certified copies of the priority documents have been received in Application No. _____.

      3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

    * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1)☒ Notice of References Cited (PTO-892)

2)☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)

3)☐ Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date _____.

4)☐ Interview Summary (PTO-413) Paper No(s)/Mail Date. _____.

5)☐ Notice of Informal Patent Application

6)☐ Other: _____.

Response to Arguments

1.   Applicant's arguments with respect to claims 1, 7, 14, and 20 have been

considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 103

2.   The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all

obviousness rejections set forth in this Office action:

> (a) A patent may not be obtained though the invention is not identically disclosed or described as set
> forth in section 102 of this title, if the differences between the subject matter sought to be patented and
> the prior art are such that the subject matter as a whole would have been obvious at the time the
> invention was made to a person having ordinary skill in the art to which said subject matter pertains.
> Patentability shall not be negatived by the manner in which the invention was made.

3.   Claims 1,3,5,6-9,11,13,14,16,18-22,24, and 26 are rejected under 35 U.S.C.

103(a) as being unpatentable over Patel et al. (US Patent No. RE37,258) in view of

Atkin (US Publication No. 2003/0023590).

        Regarding claims 1, 7, 14, 20, Patel'258 teaches controlling downstream

processing of print stream (format the printable information, column 1, line 49-50), the

method comprising: receiving the print stream (the application program interacts with

the printer driver software, column 2, line 25-30, further, number 108 in Fig. 1 shows the

printer driver receiving a signal from the application program); inserting a control

parameter in the print stream to modify the print stream (printer driver software

produces a reformatted information stream containing the embedded commands,

column 2, line 35-38), and transmitting the modified print stream for downstream

processing (the converted information stream is applied to a printer port, column 2, line

38-41). Patel'258 fails to teach a print stream contains Unicode complex text and wherein the control parameter comprises: a first parameter indicating a type of downstream processing for the Unicode complex text in the print stream; and a second parameter for enabling or disabling the downstream processing of the Unicode complex text in the print stream.

Atikin'004 teaches a print stream contains Unicode complex text (Unicode data, paragraph 0077) and wherein the control parameter (metatag, paragraph 0077) comprises: a first parameter (metatag, paragraph 0077) indicating a type of downstream processing for the Unicode complex text in the print stream (algorithms can be recast in a more manageable context according to the metadata framework of the invention, paragraph 0061); and a second parameter (more parameters, number 45, Fig. 4) for enabling or disabling the downstream processing of the Unicode complex text in the print stream (the cancel tag, paragraph 0071, the use or omission of the cancel tag will enable or disable all other tags used beforehand).

Having a system of Patel'258 reference and then given the well-established teaching of Atikin'004 reference, it would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the print driver system of Patel'258 reference to include the tag mechanism as taught by Atikin'004 reference since the tag mechanism allows for an unlimited number of possible identifiers, yet does not require any future codepoints to be registered by a standardization body, and further the result of the combination would have been predictable.

Regarding claim 3, 8, 16, and 21 the combination of Patel'258 and Atikin'004 teach

wherein the first parameter indicates bidirectional (bidi) layout processing of the

Unicode complex text (bidirectional algorithm, paragraph 0086, Atikin'004).

Regarding claim 9 and 22, the combination of Patel'258 and Atikin'004 teach wherein

the first parameter indicates a paragraph direction for the bidirectional layout processing

of the Unicode complex text (PAR tag, paragraph 105 Atikin'004).

Regarding claim 5, 11, 18, and 24, the combination of Patel'258 and Atikin'004 teach

wherein the first parameter indicates layout processing of glyphs within the Unicode

complex text (MIR, paragraph 0107 Atikin'004).

Regarding claim 6, 13, 17, and 26 the combination of Patel'258 and Atikin'004 teach

wherein the control parameter further includes a third parameter indicating text

positioning at the completion of the downstream processing of the Unicode complex text

(DIR, paragraph 0106 Atikin'004).

Conclusion

4.   Applicant's amendment necessitated the new ground(s) of rejection presented in

this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP

§ 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37

CFR 1.136(a).

        A shortened statutory period for reply to this final action is set to expire THREE

MONTHS from the mailing date of this action. In the event a first reply is filed within

TWO MONTHS of the mailing date of this final action and the advisory action is not

mailed until after the end of the THREE-MONTH shortened statutory period, then the

shortened statutory period will expire on the date the advisory action is mailed, and any

extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

the advisory action. In no event, however, will the statutory period for reply expire later

than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to LAWRENCE E. WILLS whose telephone number is

(571)270-3145. The examiner can normally be reached on Monday-Friday 9:30 AM -

6:00 PM EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, King Poon can be reached on 571-272-7440. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a

USPTO Customer Service Representative or access to the automated information

system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/King Y. Poon/

Supervisory Patent Examiner, Art Unit 2625

LEW
November 21, 2008